



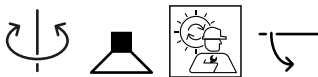
**PROJECT**

**TYPE**

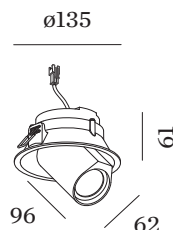
**NOTES**

**QUANTITY**

**DATE**



Round ceiling recessed downlight made from die-cast aluminium; adjustable; surface White Matt; powder coated, matt texture; RAL 9010; inner ring black; installation without tools using blade springs; suitable for ceiling thickness of min. 4 mm; recessed depth 75 mm; with COB (Chip on Board) technology for maximum efficiency; light colour 2700 K;  $\leq 2$  SDCM (initial MacAdam); CRI  $\geq 90$ ; beam angle 15°; 355° rotatable and 60° tiltable; degree of protection IP20; Class 3; IC rated; driver not included; light source replaceable by Wever & Ducré or by a professional with explicit authorization;



**LUMINAIRE**

Ceiling  
Semi-Recessed  
tilt max 60 °  
rotation 355 °  
White Matt  
RAL 9010 <sup>a</sup>  
IP20  
IC rated  
Interior  
810 lm / 500mA  
600 lm / 350mA

**LED Module**

2700 K  
CRI  $\geq 90$   
L80 / 55000h  
 $\leq 2$  SDCM (initial MacAdam)  
750 lm / 350mA  
125 lm/W <sup>b</sup>  
6 W <sup>b</sup>

**Optical**

Narrow  
beam angle 15°  
CIE flux code: 89 100 100 100  
100

**Electrical**

excl. driver  
17 V  
Class III  
Standard

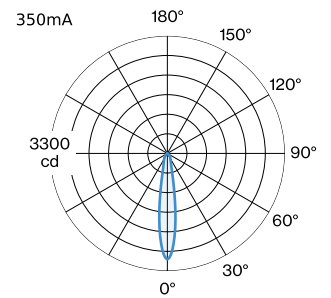
**Physical**

diameter 135 mm  
height 96 mm  
0.45 kg  
blade springs

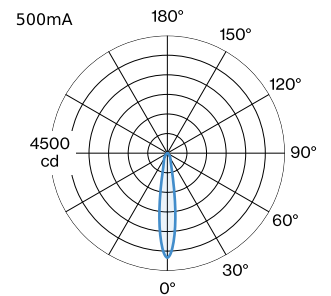
**Cutout**

diameter 127 mm  
min. ceiling thickness 4 mm  
max. ceiling thickness 25 mm  
recessed depth 75 mm

**LIGHT DISTRIBUTION**



— C0/C180



— C0/C180

<sup>a</sup> Colour may deviate slightly due to production conditions  
<sup>b</sup> Without electrical and optical losses



## CONE DIAGRAM

| narrow 17° 350mA |          |       | narrow 17° 500mA |          |       |
|------------------|----------|-------|------------------|----------|-------|
| h (m)            | E0° (lx) | ø (m) | h (m)            | E0° (lx) | ø (m) |
| 1                | 2970     | 0.30  | 1                | 4000     | 0.30  |
| 2                | 740      | 0.60  | 2                | 1000     | 0.60  |
| 3                | 330      | 0.90  | 3                | 440      | 0.90  |
| 4                | 190      | 1.20  | 4                | 250      | 1.20  |
| 5                | 120      | 1.50  | 5                | 160      | 1.50  |

## Maintenance Factor

| Operating Time [h] | 10.000 | 20.000 | 30.000 | 40.000 | 50.000 |
|--------------------|--------|--------|--------|--------|--------|
| LLMF               | 0.99   | 0.98   | 0.97   | 0.96   | 0.95   |
| LSF                | 1      | 1      | 1      | 1      | 1      |

MF LMF × RSMF × LLMF × LSF

MF Maintenance Factor

LMF<sup>a</sup> Luminaire Maintenance Factor

RSMF<sup>a</sup> Room Surface Maintenance Factor

LLMF Lamp Lumens Maintenance Factor

LSF Lamp Survival Factor

<sup>a</sup>According to "CIE 97, Maintenance of indoor electric lighting systems", 2005, ISBN 3-900-734-34-8. The values must be determined by the planner.

## ELECTRICAL ACCESSORIES

### Driver

| Type                                   | Colour | Voltage | L·W·H (MM) | Item number |
|----------------------------------------|--------|---------|------------|-------------|
| 10W   500mA   13-20V                   |        | 13-20V  | 60·39·20   | 90214406    |
| 10W   500mA   12-21V   phase-cut dim   |        | 12-21V  | 115·41·25  | 90224403    |
| 15W   500mA   10-31V   DALI-2 push dim |        | 10-31V  | 166·29·21  | 90244501    |